

## ABSTRACT

A transmit power control method in a Code Division Multiple Access (CDMA) mobile communication system includes checking whether more than one base transceiver station (BTS) is connected. When two or more BTSs are connected, CH receive SIRs (Signal to Interference Ratios) corresponding to the connected BTSs are selected for a calculation. A reference value  $S_{ref}$  is changed according to the calculation. When only one BTS is connected, the reference value  $S_{ref}$  is set to an upper limit. The changed reference value  $S_{ref}$  is reported to all the connected BTSs. The reference value  $S_{ref}$  is decided in response to the variation in selection/synthesis gain due to an increase or decrease of the number of connected BTSs.